

**Notice of Allowability**

Application No.

10/081,392

Applicant(s)

MONRO ET AL.

Examiner

Erick Rekstad

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3 May 2005.
2. ☒ The allowed claim(s) is/are 3,4,13-15,28 and 29.
3. ☒ The drawings filed on 21 February 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

### **DETAILED ACTION**

This is an Allowance for application no. 10/081,392 in response to the amendment filed on May 3, 2005 wherein claims 3, 4, 13-15, 28 and 29 are presented for examination.

#### ***Allowable Subject Matter***

After a further search and a thorough examination of the present application and in light of the Applicant's amendments and in light of the prior art made of record, claims 3, 4, 13-15, 28 and 29 are found to be in condition for allowance.

The following is an examiner's statement of reasons for allowance: The claims are allowable over the prior art of record since the cited reference taken individually or in combination fails to particularly disclose a method of video motion estimation for determining the dominant motion in a video image, said dominant motion being defined by a parametric transform which maps the movement of an image block from a first frame of the video to a second frame.

The closest prior art (De Haan et al. US Patent no. 6,278,738) in view of (Roy US Patent 6,507,661) disclose a similar method of video motion estimation for determining the dominant motion in a video image. However, De Haan and Roy fail to particularly teach or suggest several of the requirements of the independent claims. Specifically, De Haan and Roy fail to teach or suggest "the determination of the best global value includes the step of selecting the longest run of values in the output list below a threshold value." as claimed in claim 3, " in which the determination of the best global value includes the step of selecting the longest run of values in the output list below a

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threshold value, and selecting a mid-point of the said longest run.” as claimed in claim 4, “in which an estimate of  $M \cos \Theta$  where  $M \sin \Theta$  represents zoom and  $\Theta$  represents rotation is calculated for each pair of selected blocks in the first frame; and in which the best global values of  $M \cos \Theta$  and  $M \sin \Theta$  are determined from respective ordered lists.” as claimed in claims 13 and 29, “in which the best global zoom value is fed back into the similarity transform to produce a plurality of estimates of translation parameters in x and y, the best global translation parameters in x and y being determined from respective ordered lists.” as required claims 14 and 28, “in which the said best global estimates are fed back into the similarity transform to produce a plurality of estimates of translation parameters in x and y, the best global translation parameters in x and y being determined from respective ordered lists.” as required by claims 15 and 29.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

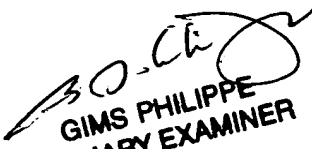
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erick Rekstad whose telephone number is 571-272-7338. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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